

Table 1: Tidal Still Water Levels (Year 2002) for South West England Coast and Estuaries

Site	Latitude	Longitude	O.S. Grid Reference	Chainage (Km) of Coastal Sites from Avonmouth	Tidal Still Water Level (m OD)												Notable High Tides (Level m OD and date)	
					Estuary Sites shown Shaded												Level m OD	Date
					MLWS	MHWS	HAT	1-Year (2002)	5-Year	10-Year	25-Year	50-Year	100-Year	200-Year	500-Year	1000-Year		
St Ives	N 50°13'	W 5°28'	SW 527 410	296	-2.60	3.20		3.69	3.83	3.89	4.00	4.06	4.17	4.24	4.33	4.41		
Land's End	N 50°04'.5	W 5°42'	SW 353 261	327	-2.39*	2.81*		3.30	3.43	3.49	3.59	3.65	3.75	3.82	3.92	4.00		
NEWLYN	N 50°06'.9	W 5°32'.1	SW 473 299	348	-2.25	2.55		3.12	3.26	3.32	3.42	3.48	3.59	3.66	3.76	3.85	3.48	10-Mar-01
Marazion	N 50°07'.4	W 5°28'.2	SW 520 306	351	-2.23*	2.54*		3.12	3.26	3.32	3.42	3.48	3.59	3.67	3.77	3.86		
Porthleven	N 50°05'	W 5°19'	SW 628 257	363	-2.19	2.51		3.10	3.25	3.31	3.42	3.48	3.59	3.66	3.77	3.86		
Lizard	N 49°57'.8	W 5°12'.7	SW 697 120	379	-2.30	2.40		3.05	3.20	3.27	3.39	3.45	3.57	3.64	3.76	3.86		
St Anthony	N 50°05'	W 5°05'.7	SW 786 250	402	-2.30*	2.40		3.04	3.21	3.29	3.42	3.49	3.61	3.70	3.82	3.93		
Gweek, Helford River			SW 706 268					3.04	3.21	3.29	3.42	3.49	3.61	3.70	3.82	3.93		
Falmouth	N 50°09'.4	W 5°04'.2	SW 807 331	409	-2.11	2.49	2.89	3.03	3.22	3.30	3.43	3.50	3.63	3.72	3.85	3.96		
Penryn			SW 786 345					3.03	3.22	3.30	3.43	3.50	3.63	3.72	3.85	3.96		
Devoran			SW 786 390					3.03	3.22	3.30	3.43	3.50	3.63	3.72	3.85	3.96		
Truro River			SW 833 435		dries	2.40		3.03	3.22	3.30	3.43	3.50	3.63	3.72	3.85	3.96		
Tresillian			SW 869 464					3.03	3.22	3.30	3.43	3.50	3.63	3.72	3.85	3.96		
Dodman Point	N 50°13'.2	W 4°48'	SX 003 394	430	-2.28*	2.39*		3.02	3.24	3.33	3.47	3.55	3.68	3.78	3.92	4.04		
Mevagissey	N 50°16'.1	W 4°46'.9	SX 018 447	438	-2.35	2.35		3.03	3.25	3.34	3.48	3.56	3.69	3.79	3.92	4.05		
Par	N 50°20'.6	W 4°42'.2	SX 077 528	445	-2.45	2.05		3.06	3.28	3.37	3.50	3.58	3.71	3.81	3.95	4.07		
Polruan (Fowey)	N 50°19.2'	W 4°38.7'	SX 120 500	449	-2.45*	2.35*		3.05	3.27	3.36	3.49	3.57	3.70	3.80	3.94	4.06		
Fowey			SX 127 517		-2.45	2.35		3.05	3.27	3.36	3.49	3.57	3.70	3.80	3.94	4.06		
Lostwithiel			SX 105 597		Dries	2.25		3.05	3.27	3.36	3.49	3.57	3.70	3.80	3.94	4.06		
West Looe	N 50°21'.4	W 4°27'	SX 257 537	465	-2.45	2.35		3.01	3.22	3.31	3.45	3.52	3.65	3.75	3.88	4.01		
Terras Bridge			SX 248 556					3.01	3.22	3.31	3.45	3.52	3.65	3.75	3.88	4.01		
MOUTH OF TAMAR	N 50°19.4'	W 4°09.5'	SX 463 490	487	-2.45*	2.31*		2.95	3.16	3.25	3.38	3.46	3.59	3.69	3.83	3.96		
DEVONPORT			SX 455 540		-2.42	2.28	2.68	2.95	3.16	3.25	3.38	3.46	3.59	3.68	3.83	3.96	3.27	1985
Jupiter Point			SX 415 570		-2.42	2.28		2.95	3.16	3.25	3.38	3.46	3.59	3.68	3.83	3.96		
St Germans, R Lynher			SX 364 573		-2.22	1.98		3.09	3.30	3.39	3.52	3.60	3.73	3.82	3.97	4.10		
Polbathic			SX 348 570					3.12	3.33	3.42	3.55	3.63	3.76	3.85	4.00	4.13		
Tideford			SX 344 596					3.18	3.39	3.48	3.61	3.69	3.82	3.91	4.06	4.19		
Notter Bridge			SX 384 609					3.16	3.37	3.46	3.59	3.67	3.80	3.89	4.04	4.17		
Saltash			SX 433 507		-2.32	2.30		2.95	3.16	3.25	3.30	3.46	3.59	3.68	3.83	3.96		
Calstock, R Tamar			SX 435 687		-1.73	2.47		3.28	3.49	3.58	3.71	3.79	3.92	4.01	4.16	4.29		
Gunnislake, R Tamar			SX 437 725					3.43	3.64	3.73	3.86	3.94	4.07	4.16	4.31	4.44		
Lopwell, R Tavy			SX 473 650		Dries			3.13	3.34	3.43	3.56	3.64	3.77	3.86	4.01	4.14		
Marsh Mills, R Plym			SX 518 565					3.05	3.26	3.35	3.48	3.56	3.69	3.78	3.93	4.06		
Puslinch, R Yealm			SX 571 510		-2.35	2.35		2.95	3.16	3.25	3.38	3.46	3.59	3.68	3.83	3.96		

Notes:

1. For the source of these data, refer to the 'Report on Regional Extreme Tide Levels, February 2003'. Levels for MLWS, MHWS, and HAT are from the Admiralty Tide Tables 2003; values marked with an asterisk (eg. 5.70\* ) are by linear interpolation between Admiralty levels.

2. The degree of confidence in the levels is discussed in the February 2003 Report. A generalised summary is as follows:

- Sites where derived levels are based on several years of site data (shown upper case in table) : 1-1000 years - High confidence:
- Other coastal sites: 1 -1000 years - Medium confidence:
- Estuary sites - 1-50 years - Medium confidence:
- Estuary sites - 100-1000 years - Low confidence:

Values having a low degree of confidence are shown in italic.

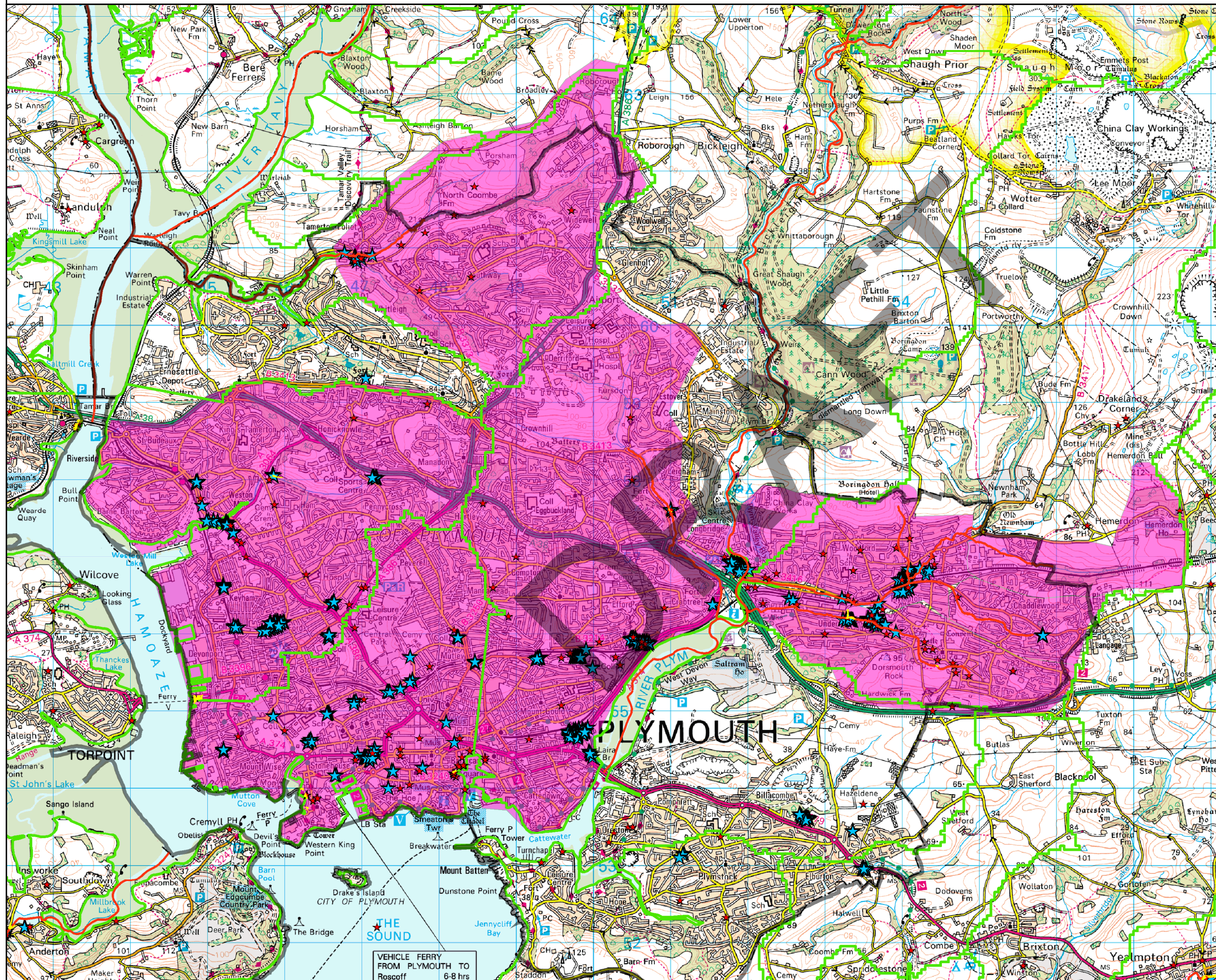
3. The coastal chainages, with their starting point at Avonmouth, are based on an empirical nearshore reference line adopted for this tide levels derivation project.

4. Return period levels for locations between the sites listed may be derived by interpolation pro rata chainage around the coast, or distance along the estuary.

Date	Location	Detail	Cause	Estimated Number of Properties flooded	Flood Source	Approx NGR
01/03/1983	Plymouth	Plymouth - Wolsley Rd A388. Council flats/road, Stuart Rd - B3241., Devon highways flooding report. Number of properties affected unknown.	Heavy rain surcharges sewers- collects at low point	0	Surface Water Runoff	SX 4550 5700
23/06/1991	Plymouth	Plymouth. Mowhay Road flooded from Ham Brook/ Weston Mill Stream. Various other locations, homes, businesses, transport routes and land flooded. (Photographs and flood extent)	Torrential rainfall/ drainage system insufficient/ surface water	2	Surface Water Runoff	SX 458 580
23/06/1991	Plymouth	Plymouth. Mowhay Road flooded from Ham Brook/ Weston Mill Stream. Various other locations, homes, businesses, transport routes and land flooded. (Photographs and flood extent)	Torrential rainfall/ drainage system insufficient/ surface water	2	Fluvial	SX 458 580
27/10/1992	Plymouth	Plymouth - Careswell Rd, Ham Number of properties affected unknown.	Ham brook: hydraulic inadequacy of sewer system	0	Sewerage	SX 4587 5768
31/10/1994	Plymouth	Plymouth - Wolsley Rd, Keyham (road flooding), College Rd (homes flooded) Number of properties affected unknown.	Ham Brook: hydraulic inadequacy of sewer system	0	Surface Water Runoff	SX 4538 5722
04/01/1998	Plymouth	Plymouth - Woseley Road - No specific details	Not known	0	Unknown	SX 4544 5718
16/03/2004	Plymouth	Plymouth - Weston Mill - Subway under St. Budeaux by-pass flooded	Pumping station not operating sufficiently to deal with surface water collecting in subway	0	Surface Water Runoff	SX 4530 5740
10/10/2006	Plymouth	Plymouth: Gdynia Way, Wolsley Rd, Kings Rd, Paradise Road, Keyham and Devonport flooded following heavy rainfall and storm conditions.	Severe storms, heavy rainfall	0	Surface Water Runoff	SX 44912 57760
02/05/2009	Plymouth	Plymouth - Dunkeswell Close, Ham . Report of flooding	Unknown	0	Unknown	SX 45911 57799
19/06/2009	Plymouth	Plymouth - Weston Mill Drive, Camels Head. Report of flooding.	Unknown	0	Unknown	SX 45417 57595
26/10/2009	Plymouth	Plymouth - Warburton Gardens, Bull Point. Report of flooding	Unknown	0	Unknown	SX 44058 4809



# Plymouth Critical Drainage Areas - Draft for Consultation Oct 2009



## Legend

- Cwl\_HistoricFloodMap\_March07
- WFD\_river\_catchments\_050k
- rivers\_main\_010k
- Critical Drainage Areas
- unitary\_10k
- FRIS
- cwl\_surface\_water\_properties\_at\_risk

HS 13 October 2009

1,400 700 0 1,400 Meters

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